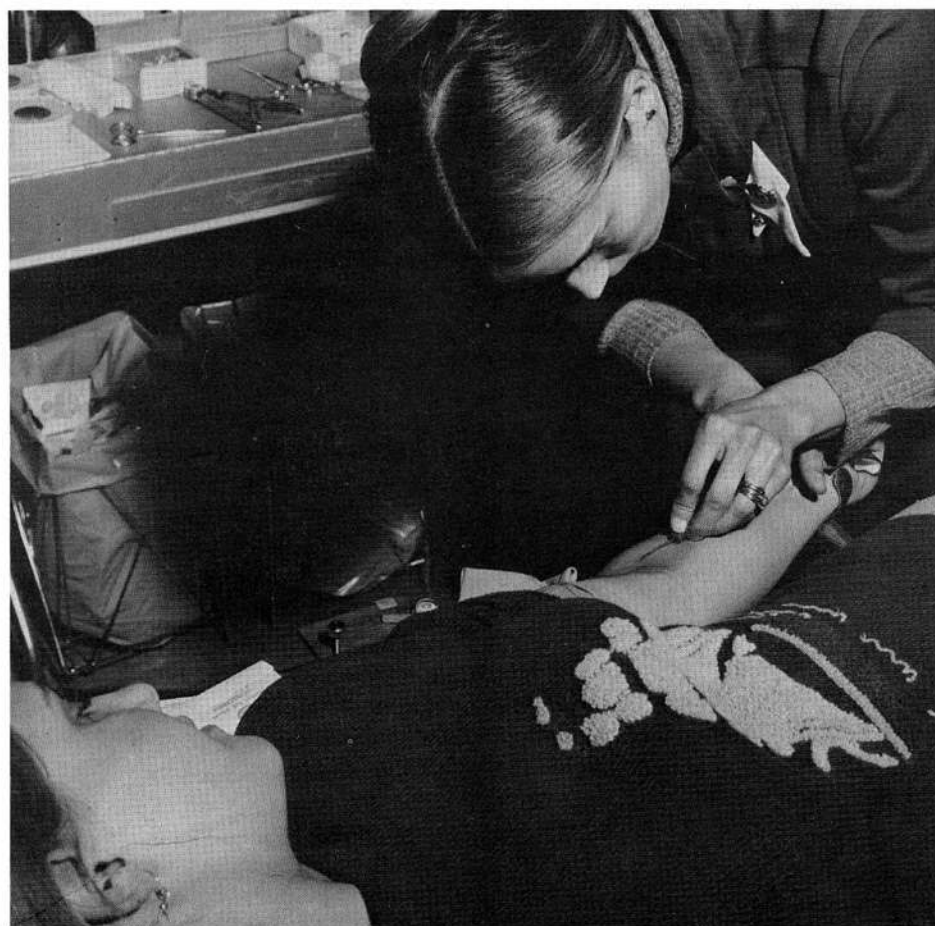


ORGDP sets first Medic blood drive August 5,6



Previous donor gives 'gift of life'

QA expert W. Edwards Deming to teach course in Knoxville

Efforts by the staffs of Y-12's Quality Division and the Nuclear Division Office of Quality Assurance resulted in the course, "Japanese Methods for Productivity and Quality," being scheduled for August 10-13 in Knoxville.

The popular four-day course is taught by W. Edwards Deming, internationally known statistical consultant, whose training of Japanese managers and scientists is credited with improving that country's quality and productivity.

Deming, professor emeritus of statistics at New York University, has been a consultant in statistical studies for 40 years. His practice has been in complex apparatus, industry, physical depreciation of utility plants, accounting, clinical and laboratory investigations, transportation and traffic.

Deming's work in Japan created a revolution in quality, economic production and in new principles of administration. He was presented many honors by Japan in recognition of his achievements in improving quality and dependability of manufactured products through statistical methods. He was also awarded the Shewhart Medal from the American Society of Quality Control in 1956.



W. Edwards Deming

The course will be held at the Hyatt Regency in Knoxville. Designed for top management, engineers, statisticians, supervisors, business students and teachers, it will attempt to show "... in the simplest terms that improvement of quality automatically increases productivity and brings the benefits of decreases in cost with better competitive position."

The course is offered through the George Washington University School of Engineering and Applied Science. For additional information, contact John Gerwels, Nuclear Division QA manager, at extension 4-9911.

The first Medic bloodmobile visits in the Oak Ridge plants will be held at ORGDP Thursday and Friday, August 5 and 6, in the auditorium-lobby of Building K-1002. The hours of the drives will be announced in the next issue of *Nuclear Division News*. The drives will be set so that all three shifts will be covered, enabling employees to donate blood regardless of shift assignments. Fran DeLozier, newly appointed manager of Multi-Site Gaseous Diffusion Projects at ORGDP, will head the drive, assisted by Roy Fenstermaker, Operations Division.

Medic, a volunteer community blood bank, operates as a nonprofit organization serving 20 counties and a total of 27 hospitals. Most Nuclear Division employees in the Oak Ridge area use the hospitals covered by a total blood supply arrangement with Medic.

The program of plant visits will mean that all employees and their IRS dependents are entitled to free blood in the covered hospitals, plus an exchange system in case blood is used outside the facilities covered. There are no processing fees involved when a covered patient uses blood. There are hospital-related charges which cover the administration of the blood, but these are covered by hospitalization insurance.

Retirees volunteer

The Union Carbide Retirees Association has agreed to furnish volunteers who will assist in registering the donors, taking their medical histories and doing other non-technical tasks associated with a blood drive. Virginia Donahoe, president of UCRA, said that this would give retired employees a chance to visit their former plants, and each one will be assigned to the plant from which he or she retired, if possible. (Retirees wishing to volunteer should call UCRA at 576-1786.)

Medic technicians and nurses will perform the task of drawing blood. They emphasize that only those who qualify will be able to donate. Blood pressure, hemoglobin level and temperatures are taken to ensure that the donor does not have a potentially contagious infection that might be passed on. This also ensures that the employee is able to donate blood.

Medic recently has staged special appeals for blood, because a critical shortage exists in this area. The hours for donating at the Medic headquarters, near the World's Fair site, also have been extended during this critical shortage. Increased blood usage is cited as the main factor in the shortage, as the medical profession finds more and more ways to improve our health using blood and its many components. Since medical research has yet to de-

velop a substitute for human blood — many authorities feel that it will be decades away — the only source of this vital commodity is fellow human beings who are willing to share their good health with others.

Effortless, painless

Giving blood is effortless, and, best of all, painless. The entire process takes less than an hour.

Future drives will be scheduled at ORNL and Y-12. The August drive, however, gives automatic coverage for the entire Nuclear Division.

ORGDP employees will be scheduled for the August 5 and 6 drives, and schedules will be staggered so that there will be a minimum of waiting, DeLozier says. "We hope the August drives are even more successful than the drives held here in 1977," she says. "Careful scheduling throughout the entire two-day period will enable the Medic representatives to draw the maximum amount of blood."

Divisional coordinators

DeLozier soon will announce divisional representatives who will assist in the scheduling. These employees will be recognized in the next issue of *Nuclear Division News*.

According to the American Blood Commission, 95 percent of us will require a transfusion of blood or its components before we reach the age of 72. It makes sense to give now while we can. Perhaps there will be others who will give when we need help.

In this issue...

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ORNL facility dedicated	page 5
Question Box	page 7

Union Carbide Retirees Association

P.O. Box 3501 P.O. Box 238
Oak Ridge, TN 37830 Paducah, KY 42001
576-1786

News editor: Al Burris Associate editor: Warner Taylor



GOLF LEAGUE MEMBERS — These golfers are among the 40 retirees participating in the UCRA Golf League, which meets each week at South Hills Golf Club in Oak Ridge.

We had a good crowd at our June 4 reunion at Clark Center Recreation Park, in spite of intermittent rain. We certainly were glad to see Verl and Dortha Husky from Corbin, Ky. (Verl is a Y-12 retiree), and George Winn from Jacksonville, Fla. (an ORNL retiree).

Recreation

Action continues in the UCRA Golf League, with some 40 persons participating. The league meets weekly at South Hills Golf Club in Oak Ridge. (See accompanying photo.)

In the recent Upper East Tennessee Senior Bowling Tournament, three UCRA members were on the first- and second-place doubles teams. UCRA member Frank Strang and Gus Legeay took top honors, narrowly defeating retirees M. L. Gibson and Ernie Bogle. (Gus is an ORGDP employee.) Congratulations to both

teams for outstanding performances!

Other news

We have increased our reservation limit for our Thanksgiving trip to Las Vegas. An additional 20 seats are now available, if reserved by Friday, July 23. As previously described, this is a four-day, three-night trip by chartered plane, leaving Thursday, November 25, and returning Sunday, November 28. The cost is \$375 per person for a double-occupancy room. The reservation deposit is \$50 per person, with checks payable to U.S. Travels. Mail to: **UCRA, P.O. Box 3501, Oak Ridge, 37830.**

Remember, we're always looking for new members to join our activities! If you're interested in joining UCRA, please complete the membership form and mail it to our office. We'd love to have you as a member!

Anniversaries

ORGDP

35 YEARS

Leslie C. Herron, Employee Relations.

30 YEARS

James M. Baker, Engineering; Robert D. Boone, Maintenance; Marilyn B. Canterbury, Enrichment Technology; Emil C. Fortunato, Engineering; James W. Hodges, Engineering; Bobby L. Johnson Sr., Separation Systems; Roy L. Smitherman, Technical Services; and Marvin B. Tate, Maintenance.

25 YEARS

Kerry D. Estes, Onah S. Fox, John D. Hoogesteger, Franklin E. Mugridge, Carl E. Powell and Edward E. Robeson.

20 YEARS

Thomas C. Sain.

Y-12

30 YEARS

Harold W. Zang and Robert W. Jackson, both in Engineering; Loretta M. McBee, Superintendents Division; Robert W. Frazier, Process Maintenance; Robert E. Stubblefield Jr., Alpha Five Processing; C. Kenneth Valentine, Metal Preparation Division Staff; and Paul E. Clifton, Process Maintenance.

25 YEARS

Samuel G. Bishop, Harry W. Fallon, Dewey W. Young, Paul F. Boyer,

Olga T. Chance, Philip N. Fisher, Jackie W. Ward and Theodore Newman.

20 YEARS

Marion D. Broadway, Thomas G. Tapp and Thurman L. Reed.

ORNL

35 YEARS

Hubert N. Wilson, Instrumentation and Controls; William A. Bird, Instrumentation and Controls; John H. Coobs, Operations; Mary V. Long, Biology; Martha H. Jones, Biology; William A. Bell Jr., Chemical Technology; and Leroy D. Vest, Computer Sciences.

30 YEARS

Alex H. Anderson Jr., Instrumentation and Controls; Frank L. Layton, Analytical Chemistry; Norval F. Ziegler, Physics; E. Leon Fair, Finance and Materials; Robert A. Francis Jr., Instrumentation and Controls; Ellison G. Price, Instrumentation and Controls; William F. Rogers, Analytical Chemistry; Kenneth O. Seiber, Plant and Equipment; James F. Ellis, Fusion Energy; Charles W. Collins, Engineering; and Marion B. Hoy, Engineering.

25 YEARS

Luther P. Pugh, Harold R. Payne and James A. Steed Jr.

20 YEARS

Stephen V. Kaye, Alice A. Hardigree, Walter K. Sartory, David H. Smith and Francis H. Clark.

Patents granted

William K. Dagenhart and William L. Stirling, both of ORNL, for "Electron Energy Recovery System for Negative Ion Sources."

John E. Van Cleve Jr. and Donald K. Lorenzo, both of ORNL, for "Canister Arrangement for Storing Radioactive Waste."

UNION CARBIDE RETIREES ASSOCIATION

Membership Application
576-1786

Annual fee: \$1 per member \$2 member and spouse

New member _____ Renewal _____

Name _____

Spouse _____

Address _____

City _____ State _____ Zip _____

Telephone—Area Code _____/Number _____

(Please note if applicant is widow or widower. Fill in "Spouse" line with deceased employee's name, year of retirement and facility from which retired.)

Retired from:

ORGDP _____ ORNL _____ Y-12 _____ Paducah _____ Staff _____

Indicate participation preference:

Golf _____ Christmas party _____

Travel _____ Swimming _____

Other activity _____ Bridge _____

Bowling _____ Reunions (2/yr) _____

Painting _____

Suggestions: _____

Make check payable to:
Union Carbide Retirees Association

Mail to:
P.O. Box 3501
Oak Ridge, Tennessee 37830
or
P.O. Box 238
Paducah, Kentucky 42001

UCRA

UCRA



Is burglary a big business?

by Larry R. Moore

(Editor's note: This column is part of a monthly series of articles on crime and crime countermeasures. The author, Larry R. Moore, is a security officer in the ORGDP Security and Plant Protection Division. A 20-year veteran of the Military Police Corps, Moore holds degrees in law enforcement and penology and criminal justice, and is currently at work on a PhD in safety. He is the author of several published articles on crime prevention and safety, and wrote a U.S. Army manual on physical security.)

As we discussed in last month's introductory article, the crime of burglary occurs once every 8 to 10 seconds on a national scale, with the rate differing according to geographical area.

Burglary is a property crime involving intrusion into an individual's home or business, either of which may be extremely valuable to burglars in their efforts to increase their cash flow. Annual burglary losses in the United States total between \$2 billion and \$3 billion, with an average loss of \$900 per victim. Nearly 4.1 million burglaries occur each year in the United States.

In over 65 percent of the burglaries in this country, residential property is the prime target, followed closely by businesses. A reason for this is the high number of women in the job market, thus leaving many homes and apartments empty during the day and easier to burglarize. Persons below the age of 25 commit approximately 80 percent of all burglaries in the United States, and 45 percent of them are committed by persons under the age of 18. About 75 percent of these burglaries involve forcible entry, between 18 and 22 percent involve unlawful entries where force is not used, and the remainder consist of attempted forced entries.

ble entry, between 18 and 22 percent involve unlawful entries where force is not used, and the remainder consist of attempted forced entries.

Burglary objectives

These crimes, whether or not they involve organized rings, often are either directly or indirectly connected to large-scale, stolen-goods purchase-and-distribution centers, many of which are detected through "sting" operations. Most major cities have several purchase-and-distribution centers that are capable of immediately processing stolen guns, silverware, television sets, etc. Many of the items taken from our homes have been "stolen-to-order," or are in high demand on the local markets, thus making them very desirable to burglars.

According to many "expert" thieves, most burglars select the easiest home and business targets that they can find. Remember, their primary objectives are to enter the building, select their desired items and leave the home or business as rapidly as possible. Some people think that it takes hours to burglarize a home or business, and that, in the

meantime, someone surely will spot the burglar and notify the police. Wrong! It often takes burglars only a few minutes to find and remove several thousand dollars worth of merchandise. This is why burglary is such a big business.

Other costs

If one of our homes is burglarized in a period of about 15 minutes, at a loss of approximately \$3,000, and with a resale value of 40 percent to the burglar, then the thief's profit is \$1,200. If the burglar works for only 45 minutes within three different homes each week (excluding target surveillance time), his or her weekly profit would be approximately \$3,600. If the burglar works some 48 weeks each year, the annual profit would be \$172,800!

Assuming the burglar only obtained a 20 percent resale value on

the items, he or she would still clear some \$86,400 annually. Even if the burglar resold the stolen items at only a 5 percent profit, he or she still would receive some \$21,600 per year for working only about 45 minutes each week! It's easy to understand why burglary is a big business!

There are also hidden costs involved in burglaries, including increased homeowner insurance premiums, life insurance increases, medical costs due to injuries, increases in local taxes to improve police coverage, and the costs of alarm systems, security fences, window guards, guard dogs, etc. The list goes on and on. We'll talk about some of the ways to protect yourself against burglary in next month's column, but first let's review what we've discussed with some questions and answers.

Test your crime I.Q. — burglary review

- The crime of burglary occurs once every:
 - 2 to 4 seconds
 - 4 to 6 seconds
 - 6 to 8 seconds
 - 8 to 10 seconds
- Burglary, as a crime, primarily involves:
 - Property crimes
 - Personal crimes
 - Violent crimes
- _____ percent of burglaries involve forcible entry.
 - 25
 - 50
 - 75
 - 85
- In most cases, it takes only _____ to commit the act of burglary.
 - 15 to 20 minutes or less
 - 1 to 2 hours
 - 2 to 3 hours
 - 3 to 4 hours

Answers found on page 8.

UNION
CARBIDE

Nuclear Division News

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Post Office Box Y
Oak Ridge, Tenn. 37830

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ORGDP
Ruby A. Miller, 574-8092

PADUCAH
Ann J. Erwin, Bell 368



Published every other week
for employees such as:



Margaret B. Emmett,
Computer Sciences Division at ORNL.

Named manager of new department

Bernard D. McElroy has been named manager of the new production Optimization Department in Y-12's Industrial Engineering Division. This department provides analytical support aimed at improving the Y-12 Plants' overall quality, cost and schedule performance.

McElroy, a native of Fairfield, Ala., received a BS degree in metallurgical engineering from the University of Alabama. He worked with U.S. Steel Corporation as an engineering co-op student while attending the University.

McElroy joined the Nuclear Division as an engineer in the Development Division at Y-12 in 1963. He moved to the Metal Preparation Division in 1966 where he served in various capacities, including supervisor of the metals engineering technical



McElroy

staff and metal working operating areas. In 1980, he transferred to ORGDP in the Enrichment Planning Department of the Operations Analysis and Planning Division.

McElroy and his wife, Martha, live in Clinton with their two children.

Recent Retirements



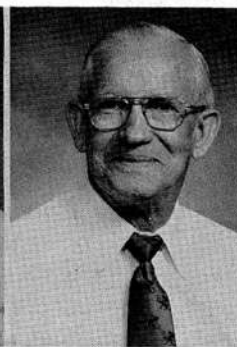
Howard R. Phillips
Electrical
Y-12
31 years service



Claude A. Reed
Maintenance
Y-12
31 years service



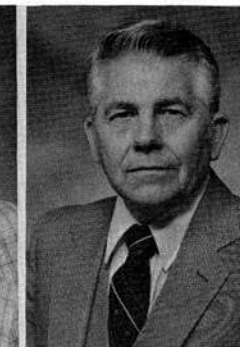
Norman J. Roberts
Dispatching
Y-12
30 years service



Roy C. Stone
Alpha 5 North
Y-12
28 years service



William P. Campbell
Waste Management
Y-12
31 years service



Willie J. Fowler
Can Fabrication
Y-12
29 years service



Bill Hudson
G-3 Processing
Y-12
37 years service



James Lefevers
Chemical Services
Y-12
29 years service



Bernice M. Steed
Graphite Shop
Y-12
33 years service



Trixie S. Wheeler
Computer Sciences
Y-12
36 years service



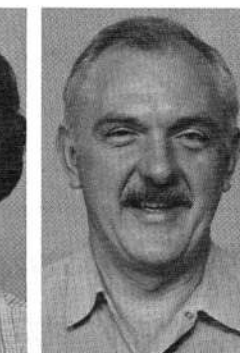
Eugene C. Hise
Engineering Technology
ORNL
26 years service



Glenn H. Jenks
Chemical Technology
ORNL
38 years service



Wanda E. Ross
Information
ORNL
36 years service



Oscar L. Kirkland
Chemical Technology
ORNL
28 years service



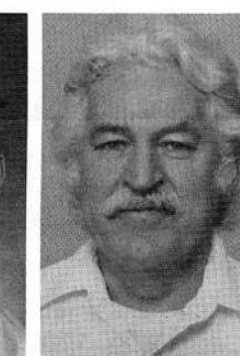
William E. Elliott
Maintenance
ORGDP
22 years service



Daniel R. Carter
Finance and Materials
ORNL
36 years service



Jack L. Posey
Plant and Equipment
ORNL
34 years service



Robert E. McDonald
Metals and Ceramics
ORNL
23 years service

Gladys M. Sherrod
Quality Assurance
and Inspection
Engineering
ORNL
22 years service

Edward C. Hendren
Chemical Technology
ORNL
34 years service

Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
February 82	20.6405	44.4513	12.0397
March 82	20.8225	45.3317	12.0058
April 82	21.0102	47.0939	12.3921
May 82	21.1961	46.2219	12.2376

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 11% for 1982. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

July called Union Carbide month at Silver Dollar City

Silver Dollar City in Pigeon Forge is offering special discounts to Union Carbide employees during July. The annual mountain music festival is now in progress there, featuring 200 musical groups performing all styles of mountain, country, blue-grass and gospel music. Discount admission tickets are being offered, as well as special deals on camping at the campsite for \$15 per night with as many as eight people in the party.

The coupon below may be used and will cover all members of the party accompanying the employee (i.e., if any employee brings 15 people in his or her party, everyone receives the discount admission). Additionally, the coupon is good for a second consecutive-day visit...FREE.

The admission savings is \$2 per person. Children ages three and under are admitted without charge.

Employees and their guests also are issued vouchers on arrival that entitle them to additional benefits: merchandise discount privileges of 10 percent at the general store, leather shop, gun shop, cut-glass shop, woodcarving shop, blacksmith shop and candle shop.

Silver Dollar City also is offering free use of the Olympic-size swimming pool.



MASTER — Charlie Fuller, master blacksmith, demonstrates early East Tennessee skills at Silver Dollar City.

Special campground rates with advance reservations at Silver Dollar City's compound will allow up to eight persons per site at the rate of \$15 per night.

Camp reservations may be made directly with Silver Dollar City, telephone 453-4616.

\$6⁹⁵ Admission + 2% tax	UNION CARBIDE DAYS at SILVER DOLLAR CITY®		\$6⁹⁵ Admission + 2% tax
	JULY 1 - JULY 31, 1982		
<p>Individuals save \$2.00 per each ticket purchased. Individual admission rate is \$6.95. One coupon entitles each family member to the discount.</p> <ul style="list-style-type: none"> Show stub to receive 10% discount at: General Store, Leather, Guns, Cut Glass, Woodcarving, Blacksmith & Candle Shops Silver Dollar City for 2 consecutive days 10 a.m. - 10 p.m. July 1 - 18; 10 a.m. - 8 p.m. July 19 - 31 Free use of swimming pool—10:00 a.m. - 8:00 p.m. Featuring the National Mtn. Music Festival June 26 - July 18 Campground discounts with advance reservations (\$15.00 for up to 8 people) I have visited Silver Dollar City in 19_____ 			
1 st Day No. in Party_____	<p>Non-Refundable, Non-Transferable Not good in conjunction with any other discount.</p> <p>SILVER DOLLAR CITY</p>		<p>Good only _____ 2nd Day Adults _____ Signature _____ Children _____ Validator _____ Non-Refundable Non Transferable</p>

Lightning safety tip

If someone is hit by lightning, never assume the person is dead, even if breathing and heartbeat have stopped, according to *Family Safety* magazine. With artificial respiration and cardiopulmonary resuscitation performed by a trained CPR rescuer, many people can be revived in a matter of minutes.

Don't be afraid to touch someone who's been struck. Once the lightning flash is over, the person no longer has any current running through his or her body. Even if the victim seems only slightly stunned, seek immediate medical help, because there could be internal organ damage from the lightning bolt.

Save Energy / Share The Ride

ORNL

VAN POOL RIDERS NEEDED from Walker Springs area (Sans Souci, Plantation Manor, Wesbridge, Brendon Park and Crestwood Hills) to any portal, 8-4:30. Mike, plant phone 4-4885; home phone 691-4194.

VAN POOL RIDERS NEEDED from Sutherland Avenue and Papermill Drive area, to ORNL, 8:15-4:45. D. P. Atkins, plant phone 4-5463; home phone 584-3766.

CAR POOL MEMBER WANTED from Knoxville, Middlebrook Pike/Robinson Road/Piney Grove Church Road (Landmark, Stonebrook and Canby Hills subdivisions), to East Portal, 8:15-4:45. J. W. Nave, 4-4485; or J. W. Sims, 4-5926.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

VAN POOL RIDER NEEDED from West Knoxville (Cedar Bluff, Middlebrook Pike, Vanosdale Road, Cloth World, Kingston Pike) to any portal except South, 8-4:30. Leon, plant phone 4-5723; home phone 693-3211.

BUS POOL MEMBERS WANTED from Maryville/Alcoa and Highway 73, including stops in Lenoir City, 8-4:30. Joel Horton, plant phone 4-3121; home phone 983-9160.

RIDERS NEEDED from East Knoxville (come down Lonas Road, hit Middlebrook, then to interstate), to East Portal. Andrew Boatwright, home phone 970-4231.

Y-12

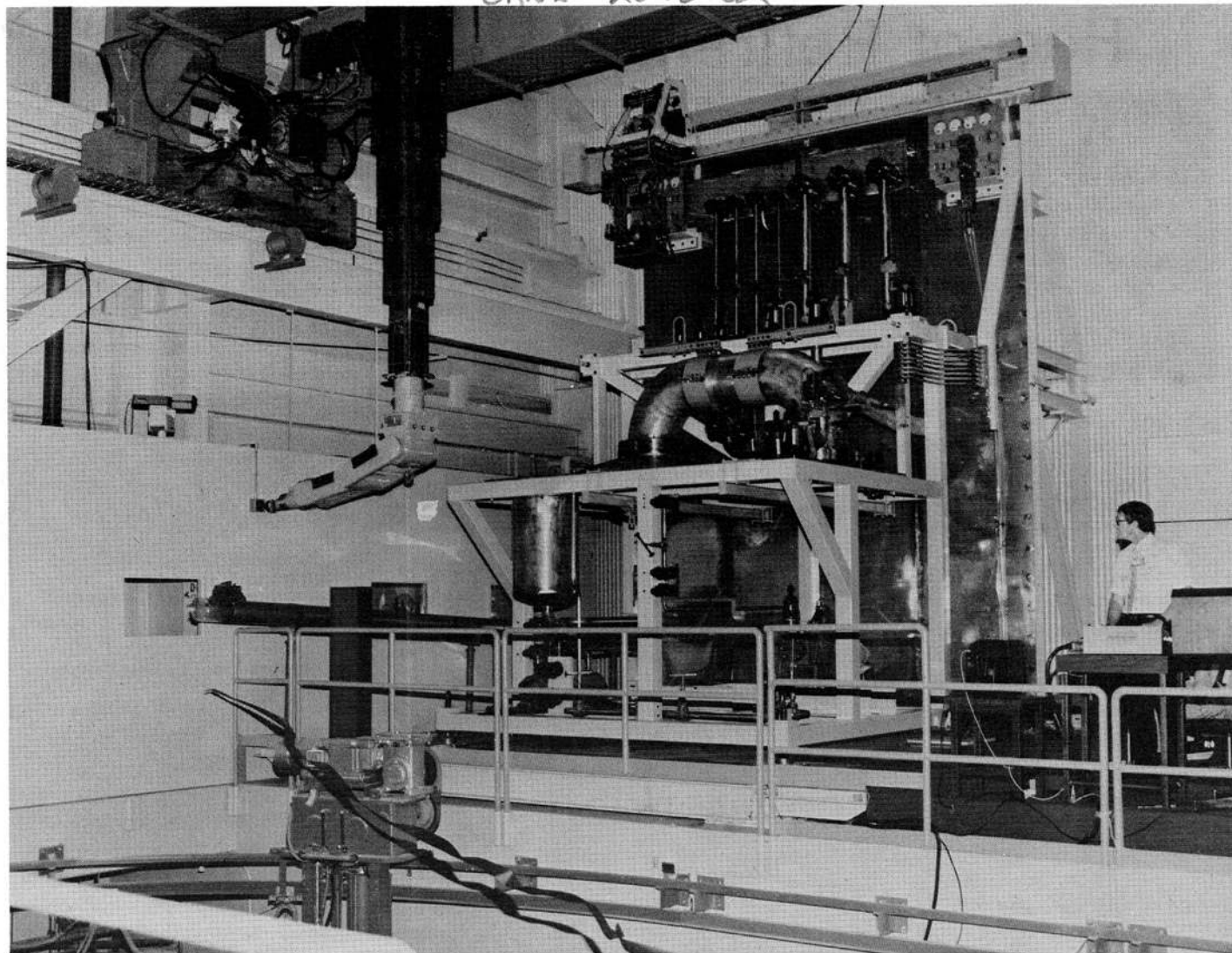
BUS POOL MEMBERS WANTED from Alcoa/Maryville and Alcoa Highway, including stops in Knoxville, 8-4:30. Joel Horton, plant phone 4-3121; home phone 983-9160.

VAN POOL RIDERS from Maryville/Alcoa to East, North or Central Portal, 8-4:30. G. D. Coppenger, plant phone 4-1380; home phone Maryville 983-5939.

CAR POOL MEMBERS NEEDED (will merge with other car poolers) from Old Stage Hills, Kingsgate, Faragut areas, to North or Central Portals, 8-4:30. E. H. McBay, plant phone 4-2456; home phone Knoxville 966-7725.

Next issue...

The next issue will be dated July 22. The deadline is July 14.



IET DEDICATION — By means of a remotely controlled manipulator, ORNL Director Herman Postma cuts the ribbon at the IET Facility with a burst of laser light. The prototype chemical process module in the center is used for testing remote maintenance techniques.

IET Facility dedicated at ORNL

A test facility to demonstrate advanced remote operation and maintenance technology for future nuclear fuel reprocessing plants was dedicated last month in ceremonies at ORNL. Designated as the Integrated Equipment Test (IET), the \$16 million project is a major focus of DOE activities for development of advanced reprocessing technology for nuclear reactor fuels.

Dedication participants included: Kermit O. Laughon, director of the Office of Spent Fuel Management and Reprocessing Systems, DOE Headquarters; W. Wade Ballard, director of DOE's Nuclear Fuel Recycle Division when the IET was started; Joseph A. Lenhard, DOE/ORO assistant manager for energy research and development; and Herman Postma, ORNL director.

The IET facility, now nearing completion, is equipped with prototype engineering components which will provide the capability for full-scale nonradioactive testing of advanced fuel reprocessing equipment, instrumentation, chemical processing and maintenance techniques.

Critical testing

Critical testing, under both simulated remote operating and remote maintenance conditions, is designed to provide assurance of reliable operation in future reprocessing plants of equipment developed in the program.

The initial phase of testing, to be carried out over the next three years, will feature equipment required in the initial or head-end steps of fuel reprocessing — a mechanical shear, continuous rotary dissolver and related systems.

Operation of the IET is a key step in DOE's Consolidated Fuel Reprocessing Program, a nationwide effort for which ORNL serves as the technical management center. Design and construction of the test facility, located at the site of ORNL's former Experimental Gas-Cooled Reactor near Melton Hill Lake, began in 1976. Initial remote maintenance test operations began earlier this year.

Chemical extraction

Fuel reprocessing involves the chemical extraction of fissionable materials — uranium and plutonium — from spent nuclear fuel and the isolation of the radioactive by-products of the fission process. The spent fuel, which is contained in bundles of 12-foot-long metal rods, is first cut into small pieces by a large mechanical shear.

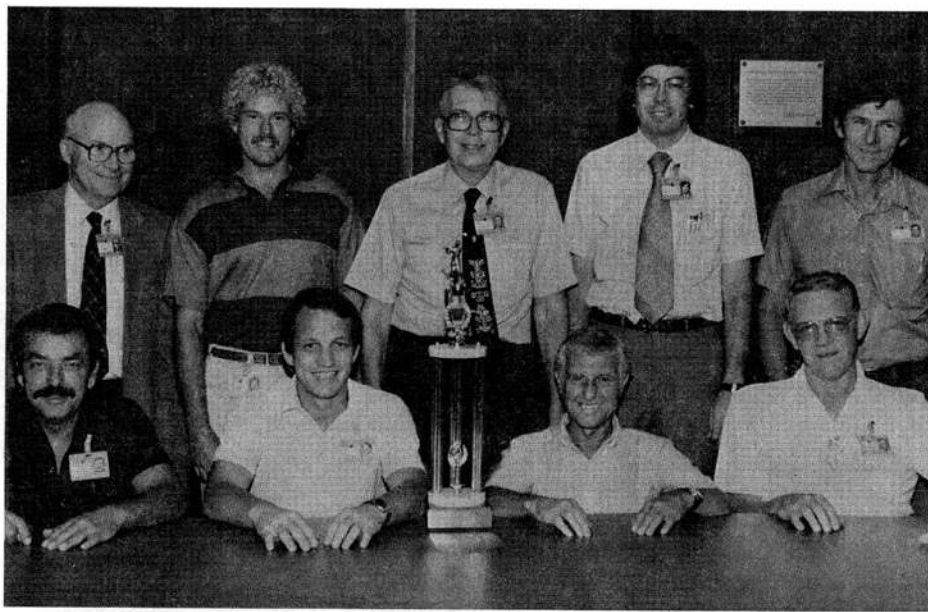
Laser cutting systems are being applied to assist in the disassembly of the extraneous hardware prior to shearing the fuel into small pieces which can be dissolved in acid. Usable fuel is extracted chemically and can be refabricated into new fuel for nuclear reactors.

Because of the intense radioactivity of the irradiated fuel, all reprocessing operations must be performed remotely behind protective shielding to ensure operator and environmental safety. Likewise, plant equipment and maintenance procedures must be designed for fully remote operation.

Two major systems

The IET consists of two major systems. One is the Integrated Process Demonstration, devoted to chemical process systems development and demonstration. Activities will include testing of chemical process components, systems and instrumentation similar to future reprocessing plant systems. A computer-based acquisition system enables individual process systems to be operated in unison, thus allowing researchers to investigate the unique problems of integrated plant operation.

The second part is the Remote Operation and Maintenance Demonstration, in which remote handling equipment and closed circuit television systems are designed to demonstrate all of the mechanical handling capabilities required for maintenance of the plant without direct human access. Large manipulators for handling equipment are transported by gantry-type cranes operated from a remote control room.



ETD GOLF CHAMPS — Winners in the ORNL Engineering Technology Division's fifth annual Duffers' Golf Tournament recently were, from left, standing, Grady Whitman, Randy Linkous, Bill Cottrell, Gary Mays, Gene Holt; seated, Jack Petit, T. G. Ramsey (division champion), Charles Wallace and Bill Montgomery. Winners not present for the photo were Bob Adams, Stan Ashton, Terry Carpenter, George Courville, Tom Kress and Bill Nelson. The tournament, held at Kingston's Southwest Point Golf Course, was followed by a division picnic.

June tee-men competition

Y-12 Golf...

John Baker's even par score took the laurels at the Y-12 Wallace Hills golf tournament for June.

Handicap winners in Division I were D. Rowan, 76; B. Briscoe, 74; George Cantrell, 78; J. Hamilton, 74; M. Emery, 79; J. Barnes, 81; D. Branson, 77; R. Riggs, 80; M. Whitt, 79; and D. Everitt, 75.

Division II winners were Bill Sahr, 82; D. Henderson and R. Renfro, 87; Jim Batch, 89; J. Warwick, 93; B. Carter, 91; V. Johnson, 86; T. Rhea, 87; D. Hunnicut, 90; and Curt Ridings, 92.

In Division III, it was J. Livingston, 87; followed by R. Chadwick, 85; Avery Kendig, 89; C. Willard, 86; K. Dixon, 90; Bob Foresman, 94; H. Huston, 92; L. Nancy 93; F. Walker, 104 and M. Hodges, 92.

ORGDP Golf...

Jim Shoemaker's 74 was low score at Dead Horse Lake as ORGDP greensmen competed in June.

Handicap lows in Division I were Loyd Kahler, 77; C. Hawkins, 78; J. Kirkpatrick, 79; E. Powell, 80; E. Strunk and S. Hudson, 78; R. Johnson, 86; S. Hinton, 83; D. Fair, 84; and H. Cresswell, 76.

Division II was taken by C. Mathis, 85; followed by C. Strange, 79; H. Aqurrie, 89; B. Schwab, L. Trowbridge, S. Edwards, G. Jones and M. Ambrose, all with 88; and F. Humphery, 93.

In Division III, it was H. Hayes, 80; R. Chesboro, 85; S. Babb, 88; J. Charing, 95; D. Weishaar, 98; C. Ford, 86; J. Crawford, 102; R. Shnider, 93; S. Aurilli, 109; F. Wells, 98; N. Sparks, 95; and D. Nichols, 91.

Patent Granted

Forrest B. Waldrop and Charles A. Washington, both of Y-12, for "Process for Anodizing Articles of Uranium."

ORNL Golf...

A par score brought A. C. Wright the June honors at Southwest Point for ORNL golfers.

Division I handicap winners were W. Chapman, 77; J. Bridges, 75; J. Johnson, 78; W. Paul, 79; R. Tucker Jr., 81; J. Deatherage, 82; P. Pair, 75; and W. Burch and E. Bordes, each with 81.

Division II went to G. Moore, 81; C. Allen, 82; P. Hatmaker, 81; R. Tucker Sr., 83; W. Sanders, 85; T. Hill, 88; G. Case, 84; J. Scarbrough, 87; R. Hudson, 86; R. Livesey, 95; J. Harvest, 90; J. Rich and J. Womac, 91 each; G. Lewis, 94; and A. Zerby, 91.

Division III went to D. Fore, 95; J. Ramsey, 84; R. Stone, 88; W. Porter Jr., 91; T. Ramsey, 93; J. Holloway, 99; L. Basler, 108; W. Freels, 102; G. Courville, 89; L. Nelms, 90; W. Fair, 94; and W. Porter Sr., 95.

Summer bowling

Carbide Family Mixed...

The Oops team has taken command of the Carbide Family Mixed League as bowlers get down to serious business for the summer. Mary Johnson's 257 game was high recent; and Gene Hawkins turned in a 243 single score. Gwen McLaughlin's 696 handicap series was high for the night; as was Herm Stewart's 662.

Monday Mixed...

The Four Eagles pulled away to a one-point lead in the Monday Mixed League. Dave Stacy's 567 tied with Tom Peek's for high series recently, as Ora Brawner rolled a 513 for the women.

Dave and Barbara Stacy carry high averages, with 183 and 162 each.

Mid-summer softball standings...

Mid-summer softball standings in the five leagues competition are as follows:

Atomic League - North Division

Name	Won	Lost
Shifters	7	1
Magnum Force 82	6	1
Super Freaks	5	2
Bruins	5	2
Competitive Inhibitors	5	2
Sluggers	4	2
Thunder Dogs	5	3
B. T. Express	5	3
The Warriors	4	3
Green Team	3	3
Prime Time Players	3	4
Nomads	3	4
Bingles	3	5
Short Circuits	3	5
E S D	3	6
Nite Life	1	6
Ole Ruff & Ready	1	7
Preston Pirates	0	7

Carbon League - East Division

Name	Won	Lost
Pirates	5	0
Waggin' Tongue	6	1
The Pac	5	1
K-Bares	6	2
Forty-Niners	5	2
His & Hers	4	2
Outlaws	3	2
Grand Slammers	3	2
Ringers	3	4
Doowahs	2	5
Catch One	1	5
Pits	1	6
Master Batters	1	6
A M D L	0	6

Carbon League - Central Division

Name	Won	Lost
Killer Bees	7	0
Beer Hunters	6	0
Bad Company	5	2
Double Eagles	5	2
Red Eye Gravy	5	2
Mean Squares	5	3
Foul Play	4	4
P. O. I.	4	4
Streakers	3	4
Ad-Libs	2	5
Sharks	1	5
Odds & Ends	1	5
Tom's Turkeys	1	6

Carbon League - Bush Division

Name	Won	Lost
Mert Dirt	5	0
Sweat Sox	5	0
Profusion	3	1
Balrogs	3	1
Fed I	3	1
Loose Balls	4	2
Cow Patties	2	2
Bombers	1	2
Gators	1	3
Jack's Jocks	1	4
Stonefingers	0	3
Rotor Rooters	0	5
Super Subs	0	6

Carbon League - West Division

Name	Won	Lost
Mug Huggers	8	0
The Straps	6	1
Stokers	6	2
Tailgators	4	3
Sonny's Bandits	4	3
Whirlybirds	4	3
"The Protectors"	3	3
The Flukes	3	4
Tappers	3	5
Knockers	2	4
U. S. A.	2	5
Dazed & Confused	1	6
"T-Lab Tankers"	1	6

Hi Power Rifle...

Larry Weston, ORNL, took the early June match in the High Power Rifle League, firing a 743 out of a possible 800. Hugo Bertini, also of ORNL, was close behind with a 742. Ronnie Crawford, also of ORNL, followed in third place with 691. Other scores were: G. Newtown, TIC, 645; R. Hatmaker, TIC, 622; S. Mobley, ORNL, 601; and A. Beasley, Y-12, 588.

Jack Spurling, Y-12, returned to the boards to take the late June competition, firing a 753. Weston came in second with 735; and Roger Wiegang, Y-12, was third with 715. Other scores: H. Bertini, ORNL, 714; H. Hoy, ORNL, 693; H. Fell, Y-12, 654; E. Hines, ORNL, 638; R. Hatmaker, TIC, 601-3x; S. Mobley, ORNL, 601-2x; A. Beasley, Y-12, 579; and A. Shifflett, FOB, 571.

Tee-Off Time Application for

July 24, 1982

(Check Appropriate Plant)

- ☐ Y-12—Southwest Point
☐ ORNL—Wallace Hills
☐ ORGDP—Cedar Hills



Time Preferred

Leader 1. _____
 2. _____
 3. _____
 4. _____

COMPLETE AND RETURN TO THE Y-12 RECREATION OFFICE
 Y-12 — BUILDING 9711-5, MS-1

Entries must be received prior to drawing on July 21, 1982.

Tee-off times for all tournaments will be drawn on Wednesdays prior to each Saturday's tournament. Please call the Recreation Department, 4-1597, after 8:00 a.m. Thursday for time.

Medical records for retirees?

QUESTION: Is it possible for retiring employees to pick up a copy of their company medical records upon termination? It would certainly be helpful to have them when later medical problems arise.

ANSWER: An employee may obtain a copy of his/her medical records or, if desired, have the records sent to his/her private physician by making a request to the Plant and/or Laboratory Medical Director.

Vacation improvements?

QUESTION: The current Company vacation policy for salaried employees is to provide two weeks of vacation after the first year of employment, three weeks after five years, four weeks after ten years, five weeks after twenty years, and six weeks after thirty years. Why can't vacation time be awarded in increments so that an employee receives an extra day for each year's service (for example, eleven days after two years, twelve days after three years, etc.)? This would bring Carbide nearer to a competitive level with other large employers. Also, why is there such a long period between increases in vacation time from ten to twenty years of service and from twenty to thirty years?

ANSWER: Union Carbide's vacation plan is one of the most generous

to be found in industry. Few, if any, provide for the sort of incremental increase you suggest. One of the reasons is that it would add to the complexity and difficulty of understanding the plan. Insofar as the interval between steps is concerned, this too is the way most industrial plans are structured. Many plans require longer periods of service before reaching the four-week vacation eligibility, as well as imposing a four- or five-week maximum regardless of service.

Parking lot problems

QUESTION: At the approach of Portal 2 at ORGDP, there are reserved spaces for visitors on each side of the road. Full-time employees are using these spaces, keeping them full for eight hours. Can't something be done to prohibit this?

ANSWER: The ORGDP Plant Protection Department routinely issues violation notices to those employees observed parking in the visitor zone. A copy of this violation is forwarded to the employee's division manager for appropriate disciplinary action. Visitor parking spaces are very limited, and employees are urged to cooperate by parking in designated employee parking lots.

Named supervisors in Information



Fraley



Watkin

Elizabeth A. Fraley has been named a supervisor of information processing and Eugene L. Watkin a supervisor of graphic arts, both in the Technical Information Department at Y-12.

Fraley, a native of Oak Ridge, joined Union Carbide in 1975 in the Chemical Technology Division of ORNL and transferred to Y-12 in 1979. She is attending the University of Tennessee.

She is a member of the International Association of Quality Circles and is president of the International Information/Word Processing Association's Knoxville area chapter. She lives at 601 Peters Road, Knoxville.

Watkin, a native of Knoxville, joined Union Carbide in 1966, after working with Knoxville Utilities Board and the Tennessee Highway Department's engineering department. He is a member of International Graphics, Inc., and has 25 years of service with the Tennessee Army National Guard.

He and his wife, the former Jerrie Brewer, live at 5512 Melstone Drive, Knoxville. They have two children.

Health physics meter exchange at Y-12

The annual changeout for Y-12 employees swapping their health physics meters will end July 16. The meters are attached behind employees' identification badges and are arranged in alphabetical order at each portal. (The new meters have an orange stripe across the top.)

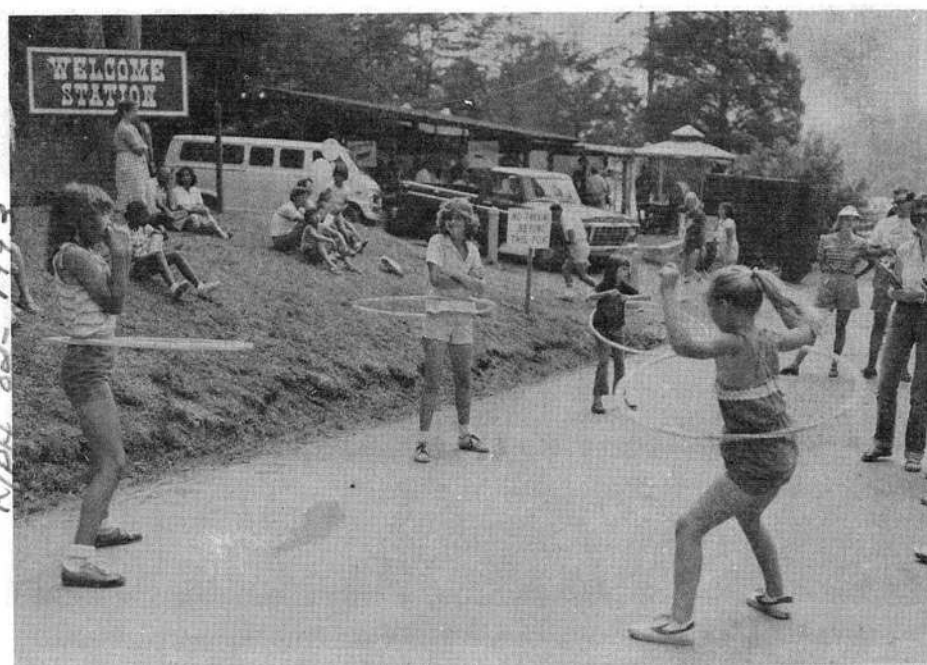
When an employee takes his new meter, he should leave the old one in the slot.

If an employee is unable to locate his meter, he should call Health Physics, extension 4-3537 for assistance or assignment of a new meter.

Alicia L. Compere, James W. Holleman and William L. Griffith, all of ORNL, for "Enzymatic Method for Improving the Injectability of Polysaccharides."

Patents granted

R. Jack Brown, Howard L. Gerth and Samuel C. Robinson, all of Y-12, for "Friction-Free Electrical Contactor."



Engineering picnic held at park

Old cars, old habits and young children

The Engineering Division recently had fair weather for another successful picnic. The theme was a 50's Beach Party. The day started early with the 5000-meter race won by Kyle Sage. Following was the hotly contested softball tournament. After three games, Instrumentation and Electrical carried the day.

There were contests for everyone, with many based on the theme, such as the hula-hoop contest and the

Volkswagen stuff. The children were entertained with pony rides, merry-go-round and an arts festival.

Charlie Hensley won the afternoon car show with a 1956 Thunderbird. 50's music by "DANCER," the Performing Arts Dance Center and a sampling of "Camelot" by the Oak Ridge Playhouse followed. The final event was a fashion show of swim and sportswear by "A Touch Of Class Fashions."

ORNL 2598-82



UNITED WAY COMMITTEE — Members of the Nuclear Division's 1982 United Way Campaign Committee recently toured the Daniel Arthur Rehabilitation Center in Oak Ridge and met two-year-old Erin Rosenbaum, a victim of Down's syndrome (also known as Mongolism). With Erin is her mother, Susan Rosenbaum of Harriman, and Christine Travaglini, ORGDP campaign chairman. From left are Bob Neal, publicity chairman; W. D. (Dub) Shults, ORNL campaign chairman; Mike Moses, treasurer; Sherill Smith, materials coordinator; Charles Holland, Y-12 campaign chairman; Harvey Carter, general campaign chairman; and Larry Jones, computer management. Not pictured is Mary Lou Whitten, auditor.

Herschel Galyon dies in Oak Ridge

Herschel C. Galyon, Y-12's Alpha 5 East Shop, died June 21 at the Oak Ridge Hospital. A 20-year veteran of the U.S. Air Force, he had been with Union Carbide since 1972.

Survivors include his wife, Louise Neighbors Galyon, Route 2, Philadelphia; daughter, Dianna Holt; five grandchildren; sisters, Audrey Hensley, Maxie Tracy and June Partain.

Funeral services were held at the Kyker Funeral Chapel, Sweetwater, with interment at Pleasant Hill United Methodist Church Cemetery.



Mr. Galyon

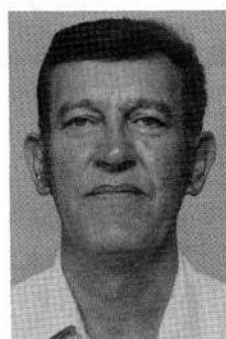
The family has requested that any memorials be in the form of contributions to the Heart Fund, or to the Gideon Bible Program.

James V. Winchester dies June 24

James V. Winchester, a welding technologist in Quality Assurance and Inspection at ORNL, died June 24 at Oak Ridge Hospital. He lived at 125 Utah Avenue, Oak Ridge.

Mr. Winchester, who had worked at ORNL since 1952, was a World War II veteran of the U.S. Army and a member of Pruden Baptist Church of Pruden, Tenn.

Survivors include his wife, Charlotte W., an ORNL employee; daughter, Mary Ann, of Oak Ridge; two brothers, Cecil V. and William; and two sisters, Mrs. Roy Rigney and Mrs. Paul Payne.



Mr. Winchester

Services were held at Weatherford Mortuary Chapel, Oak Ridge, with burial in Oak Ridge Memorial Park.

Nomination forms available for Community Service Awards

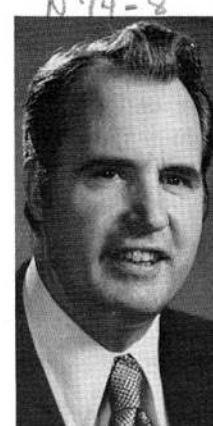
Employee nominations are now being accepted throughout the Nuclear Division for the new Union Carbide Community Service Awards Program, according to Ed Woy, Division program chairman.

Nomination forms for the awards, which recognize employees who continuously demonstrate their commitment to community service, have been distributed, and additional forms are available in division managers' offices at each installation. Completed forms must be submitted no later than July 30 to the following facility program coordinators: Kathy D. Coleman, Y-12; Harry G. Conner, ORGDP; W. Charles Kuykendall, ORNL; and Howard Pulley, Paducah.

Employees engaged in voluntary, uncompensated activities that benefit their communities are eligible for the awards and may be nominated by their co-workers or by themselves. Selection committees at each facility composed of Carbide and community representatives will review the nominations and select the award recipients.

Thirty-seven Nuclear Division employees will be recognized this year, with ten awards presented at each of the three Oak Ridge installations and seven at Paducah. The number of available awards is determined by each facility's employee population.

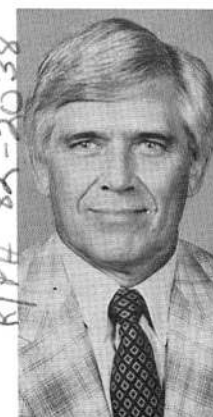
The awards will be presented at a special ceremony in September. Each recipient will receive a letter of commendation, an award certificate and a pin, in addition to a \$200 award to be contributed to the community organization(s) of the employee's choice.



Woy



Coleman



Conner



Kuykendall



Pulley

Safety Scoreboard

Time worked without a lost-time accident through June 30:

Y-12 Plant.....	166 Days	6,251,000 Employee-Hours
ORGDP	139 Days	3,359,000 Employee-Hours
ORNL	14 Days	507,810 Employee-Hours
Paducah.....	701 Days	5,977,000 Employee-Hours

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'Crime and prevention' quiz answers

(Questions on page 3)

1. d. 8 to 10 seconds
2. a. Property crimes
3. c. 75 percent
4. a. 15-20 minutes or less

ADDRESS CORRECTION REQUESTED